Application No. Applicant(s)

09/682,353 HALL, RICHARD M.

Examiner Art Unit

Michael Brown 3764

| √ | Rejected | - | (Through numeral)<br>Cancelled | N | Non-Elected  | Α | Appeal   |
|---|----------|---|--------------------------------|---|--------------|---|----------|
| = | Allowed  | + | Restricted                     | ı | Interference | 0 | Objected |

| Claim Date |          |         |          |          |          | Cla      | Claim Date      |          |          |           |         | ]::::    | С                   | aim      |           | Date          |          |          |          |        |              |            |                |          |         |        |  |                 |          |           |
|------------|----------|---------|----------|----------|----------|----------|-----------------|----------|----------|-----------|---------|----------|---------------------|----------|-----------|---------------|----------|----------|----------|--------|--------------|------------|----------------|----------|---------|--------|--|-----------------|----------|-----------|
| Final      | Original | 3/18/05 |          |          |          |          |                 |          |          |           | Final   | Original |                     |          |           |               |          |          |          |        | Final        | Original   |                |          |         |        |  |                 |          |           |
|            | 1        |         |          | _        |          | $\neg$   | $\dashv$        |          |          | _         |         | 51       |                     | $\top$   | T         | $\sqcap$      |          | $\top$   | 十        | 1      |              | 101        |                | $\top$   | $\top$  | ┰      | 1  |                 | 7        | $\dashv$  |
|            | 2        | ī       |          |          |          |          |                 |          |          |           |         | 52       |                     |          |           |               |          |          |          | ]      |              | 102        |                |          | 1       |        |  |                 |          |           |
|            | 3        | $\perp$ |          |          |          |          |                 |          |          |           |         | 53       |                     |          |           |               |          |          |          |        |              | 103        |                |          |         |        |  |                 |          |           |
|            | 4        | L       |          |          |          |          | _               |          |          |           |         | 54       |                     |          |           |               |          | $\perp$  |          | ]::::: |              | 104        |                |          |         |        |  |                 |          |           |
|            | 5        | L       |          |          |          | _        | _               |          |          |           |         | 55       | $\sqcup$            | $\perp$  | <u> </u>  |               |          |          |          |        |              | 105        |                |          | $\perp$ |        |  | Ш               | $\perp$  |           |
|            | 6        | ┸       |          |          |          | $\dashv$ | _               |          | _        |           |         | 56       | Ш                   |          | _         | ╙             | $\Box$   |          |          |        |              | 106        |                |          | ┵       |        | <u> </u>   | Ш               |          |           |
|            | 7        | 4       |          | _        | -        | _        | 4               |          |          |           |         | 57       | <b>.</b>            |          | ╄         | ш             | _        | _        |          | 4::::  |              | 107        | $\perp$        | _        | 4-      |        | ļ  | Ш               | _        | _         |
|            | 8        | 4       | <u> </u> |          | _        | -        | 4               | _        | -        |           |         | 58       | $\vdash \vdash$     | +        | +-        | $\perp \perp$ | $\Box$   | 4        | $\bot$   | -      | <u> </u>     | 108        | _              | _        | 4       | 4      | <u> </u>   | $\sqcup$        | -+       |           |
|            | 9        | 4       |          |          |          | -        |                 |          | _        |           |         | 59       | $\vdash$            |          | +         | ₩             | $\dashv$ | -        | -        | 4      | <u> </u>     | 109        | -              |          | +       | +-     | <u> </u>   | $\sqcup$        | _        |           |
|            | 10       | +       | $\vdash$ |          | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |           |         | 60       | $\vdash$            | -        | +         | ₩             | $\dashv$ | _        | +        | 4::::  | <u> </u>     | 110        |                | +        | +       | +      | ┝  |                 | -        |           |
|            | 11       | +       | $\vdash$ |          | -        |          |                 |          | -        |           |         | 61<br>62 |                     | $\dashv$ | +         | ₩             |          | $\dashv$ | -        | -      | <u> </u>     | 111        | $\dashv$       | +        | +       | +-     | ┼  | $\vdash \vdash$ | $\dashv$ |           |
|            | 12<br>13 | +       | $\vdash$ |          | -        | $\dashv$ | $\dashv$        |          | +        |           | <b></b> | 63       | $\vdash$            | +        | +-        | ₩             |          | +        | +        | -      | <u> </u>     | 112        | -              | +        | ╬       | +      | -  | $\vdash \vdash$ |          | _         |
|            | 14       | +       | $\vdash$ | -        | $\vdash$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |           |         | 64       | $\vdash$            |          | +         | $\vdash$      |          | +        | +        | 1      | <del> </del> | 113        | $\dashv$       | +        | ╬       | +-     | ₩  | $\vdash$        | -+       |           |
|            | 15       | +       | $\vdash$ |          | $\dashv$ | +        | $\dashv$        | $\dashv$ | -        | -         |         | 65       | ┝                   | $\dashv$ | +         | ${f H}$       | $\dashv$ | +        | +        | -      | $\vdash$     | 115        | $\dashv$       | +        | ╁       | +      | ╁  | $\vdash$        | -+       |           |
| -          | 16       | +       | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |           |         | 66       | $\vdash \vdash$     |          | ╁         | $\vdash$      | $\vdash$ | +        | +        | 1      | $\vdash$     | 116        | +              | +        | +       | +      | $\vdash$   | $\vdash$        | -        | _         |
|            | 17       | +       |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |           |         | 67       | $\vdash$            | +        | ╁         | ╁┤            | $\dashv$ |          | +-       | 1      | $\vdash$     | 117        | $\dashv$       | +        | +       | +-     | +-   | Н               | -        | -         |
|            | 18       | +       | $\vdash$ |          | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |           |         | 68       | $\vdash$            | +        | +         | $\forall$     | $\vdash$ | $\dashv$ | +-       | 1      | $\vdash$     | 118        | +              | +        | +       | +-     | +-   | $\vdash$        | $\dashv$ | _         |
|            | 19       | †       |          |          | $\neg$   | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |           |         | 69       | $\vdash$            | $\top$   |           | +             |          | _        |          |        |              | 119        |                | $\dashv$ | +       | +      | ┢  | H               | $\dashv$ |           |
|            | 20       | t       |          | $\neg$   | 一        | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |           |         | 70       | $\vdash$            | $\top$   | +         | $\vdash$      |          | _        |          | 1      |              | 120        |                | -+-      | ╈       | +      | $\vdash$   | Н               | $\dashv$ | _         |
|            | 21       | t       | Н        |          | $\neg$   | _        | $\dashv$        | ヿ        | 一        |           |         | 71       |                     |          | 1         | $\vdash$      |          | 1        | 1        | 1      |              | 121        |                |          | +       | +-     | -  |                 | $\dashv$ | _         |
|            | 22       | †       |          | $\neg$   | $\Box$   | $\neg$   | 寸               | 一        | $\neg$   |           |         | 72       |                     |          | T         | $\vdash$      |          | Ť        | i        | 1      | <u> </u>     | 122        | _              | _        | $\top$  |        | $\vdash$   |                 | $\dashv$ | _         |
|            | 23       | T       |          |          | T        | 寸        | $\neg$          | 7        |          |           |         | 73       |                     |          | T         | $\vdash$      | $\Box$   | $\top$   | $\dashv$ | 1      |              | 123        |                | 7        | ╅       | _      | $\vdash$   | П               | +        | _         |
|            | 24       | T       |          |          |          | $\neg$   |                 |          |          |           |         | 74       |                     |          | T         | $\sqcap$      |          |          | 1        |        |              | 124        |                |          |         |        | Г  | П               | $\neg$   | _         |
|            | 25       | T       |          |          |          |          |                 |          |          |           |         | 75       |                     |          | 1         | $\Box$        |          |          |          | 1::::  |              | 125        |                |          |         |        |  | П               |          |           |
|            | 26       | Τ       |          |          |          |          |                 |          |          |           |         | 76       |                     |          | $\top$    | $\Box$        | $\Box$   |          |          | 1      |              | 126        |                | T        | ┪       | ┪      | 1  | П               | $\neg$   |           |
|            | 27       | Ι       |          |          |          |          |                 |          |          |           |         | 77       |                     |          |           |               |          |          |          | ]      |              | 127        |                |          |         |        |  |                 |          |           |
|            | 28       | L       |          |          |          |          |                 |          |          |           |         | 78       |                     |          |           |               |          |          |          |        |              | 128        |                |          |         |        |  |                 |          |           |
|            | 29       | L       |          | _        |          |          |                 |          |          |           |         | 79       |                     |          |           |               |          |          |          |        |              | 129        |                |          |         |        |  |                 |          |           |
|            | 30       | L       |          |          |          |          |                 |          |          |           |         | 80       |                     |          |           | Ш             |          |          |          |        |              | 130        |                |          | $\perp$ |        |  | Ц               |          |           |
|            | 31       | L       | Щ        | _        |          |          | 4               | _        |          |           |         | 81       |                     |          | ╙         | Ш             |          |          |          |        |              | 131        |                |          | $\perp$ |        |  | Ш               |          |           |
|            | 32       | ╀       | Ш        |          | _        |          | _               | _        | _        | _         |         | 82       | $\sqcup$            |          | 4         | $\sqcup$      |          | $\perp$  | $\perp$  | 1      | L            | 132        | _              | _        | $\perp$ | _      | _  | Ш               |          |           |
|            | 33       | ⇂       | Ш        | _        | _        | 4        | _               |          |          |           |         | 83       | $\vdash \downarrow$ | _        | ╀-        | $\sqcup$      | $\sqcup$ | +        | $\perp$  | 4      |              | 133        | _              |          | +       | 4      | <del> </del>                                     | $\sqcup$        | $\dashv$ | _         |
|            | 34       |         | $\vdash$ | $\dashv$ |          |          | $\dashv$        |          | -        | _         |         | 84       |                     | +        | 4         | $\sqcup$      | $\dashv$ | -        |          | 1      | <u> </u>     | 134        |                | +        | +       | +      | $\vdash$   | $\sqcup$        | $\dashv$ | _         |
| -          | 35       | _       | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | _        | $\dashv$ | _         |         | 85       | $\vdash$            |          | 1         | ┦             | $\dashv$ | +        | +        | 4      | <u> </u>     | 135        | $\dashv$       | _        | +       | +      | -  | $\vdash$        |          |           |
|            | 36<br>37 |         | Н        | -        | -        | -+       | -               |          | $\dashv$ | -         |         | 86       | $\vdash$            | +        | +         | ╁╌┤           | $\dashv$ | +        | +        | 1      |              | 136        |                | +        | +       | +      | ⊢  | H               |          | _         |
|            | 38       | _       | $\vdash$ | -        |          | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$  |         | 87<br>88 | $\vdash \vdash$     | +        | +-        | $\vdash$      | $\dashv$ | -        | ╁        | 1      |              | 137        | $\dashv$       | +        | +-      | +      | $\vdash$   | $\vdash$        | +        |           |
| -          | 39       |         | $\vdash$ | _        | -        | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$  |         | 89       | $\vdash$            | +        | +         | $\vdash$      | $\dashv$ | +        | +        | 1      |              | 138<br>139 | $\dashv$       |          | +-      | +-     | ┼-   | $\vdash$        | $\dashv$ |           |
|            | 40       | _       | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | +               | $\dashv$ | $\dashv$ | $\dashv$  |         | 90       | $\vdash$            | +        | +         | $\vdash$      | $\dashv$ | +        | +        | 1      |              | 140        | +              | +        | ╁       | +-     | ⊢  | $\vdash$        | +        |           |
|            | 41       |         | $\vdash$ | -        | -        | $\dashv$ | +               | $\dashv$ | -        | $\dashv$  |         | 91       | $\vdash$            | +        | +         | $\vdash$      | -        | $\dashv$ | +-       | 1      |              | 141        | $\dashv$       | +        | +       | +      | ╁  | ┝╌┥             |          |           |
| _          | 42       |         | Н        | $\dashv$ | $\dashv$ | $\dashv$ | -+              | -+       | -+       | $\dashv$  |         | 92       | -                   | +        | +         | $\vdash$      | $\dashv$ | +        | +        | 1      | <u> </u>     | 142        |                | +        | +       | +      | ├  | $\vdash \vdash$ | $\dashv$ | _         |
|            | 43       |         | $\vdash$ |          |          | $\dashv$ | $\dashv$        | -        | +        | $\dashv$  |         | 93       | $\vdash$            | +        | +         | H             | -        | +        | +        | 1      | <u> </u>     | 143        | $\dashv$       |          | +       | +      | $\vdash$   | $\vdash$        | $\dashv$ | _         |
|            | 44       | -       | Н        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$        | _        | $\dashv$ |           |         | 94       | $\vdash$            | +-       | +         | Н             | $\dashv$ | $\dashv$ | +        |        |              | 144        | $\dashv$       | +-       | +       | +      | <del>                                     </del> | $\vdash$        | $\dashv$ | $\dashv$  |
|            | 45       |         | Н        | $\neg$   | $\dashv$ | 十        | $\dashv$        |          | $\dashv$ | ᅱ         |         | 95       | $\vdash \uparrow$   | _        | t         | H             | $\dashv$ | 十        | +        |        |              | 145        | $\dashv$       | +        | +       | +      | <del>                                     </del> | $\vdash$        | $\dashv$ | $\neg$    |
|            | 46       | _       | Н        |          | $\dashv$ | $\dashv$ | $\dashv$        | 7        | $\dashv$ | $\exists$ |         | 96       | $\vdash$            | $\top$   | $\dagger$ | +             |          | $\top$   | +        | 1      | <b></b>      | 146        | $\dashv$       |          | 1       | +      |  | H               | -+       | _         |
|            | 47       |         |          |          | $\neg$   | $\neg$   | $\neg$          | _        | 7        |           |         | 97       | $\Box$              | 1        | 1         | П             | $\neg$   | $\top$   | 十        | 1      |              | 147        | $\neg \dagger$ | $\top$   | $\top$  | $\top$ | <u> </u>   | П               | 寸        | $\exists$ |
|            | 48       | _       |          |          |          | $\dashv$ | $\neg \uparrow$ | 寸        | 7        | $\neg$    |         | 98       | $\Box$              |          | 1         | П             |          | 7        | 1        | 1      |              | 148        | $\dashv$       | _        | 1       | ┰      | T  | П               | 十        | _         |
|            | 49       | _       |          |          |          |          |                 |          |          |           |         | 99       |                     |          |           |               |          |          | T        | 1      |              | 149        |                | 1        | 1       | 1      |  | П               | 丁        | $\neg$    |
|            | 50       |         |          |          | $\neg$   | $\neg$   | $\top$          | T        | $\Box$   |           |         | 100      |                     | T        | Г         |               |          | $\neg$   | Т        | 1::::  |              | 150        |                | T        | 1       | 1      | Π  | П               | T        | $\neg$    |